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0608-9626-USf/Robert/Bric

New Application: Kun-Long LIN et al. Filed: February 19, 2004 9 sheets of drawings FIGS.1A-7 RABIN & BERDO, P.C. Atty Docker TOP 270

Customer NO.: 23995

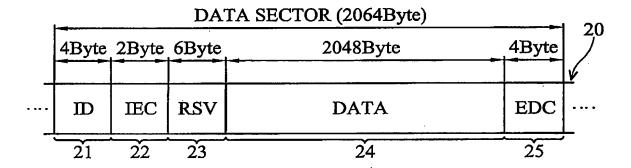
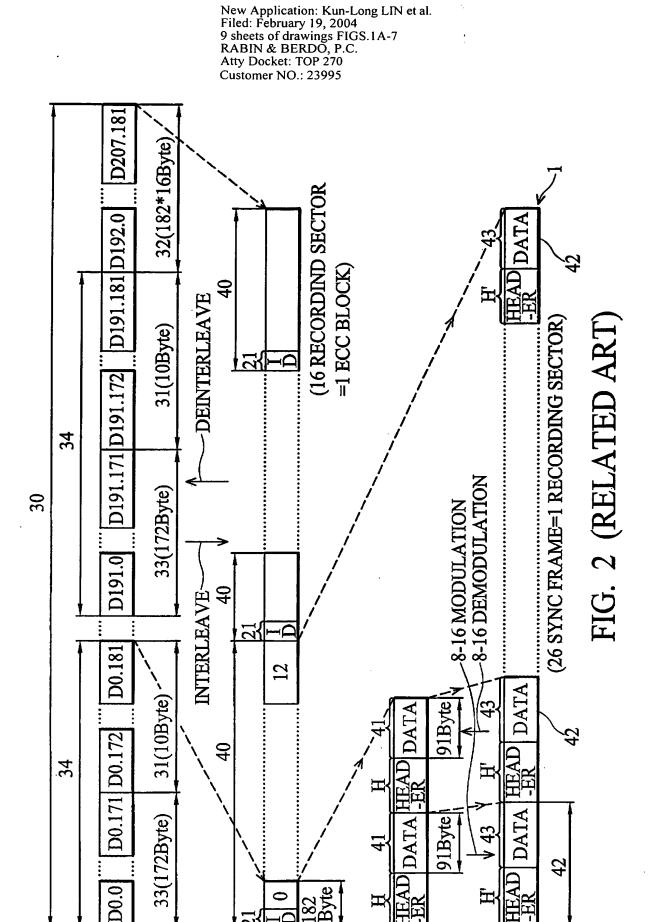
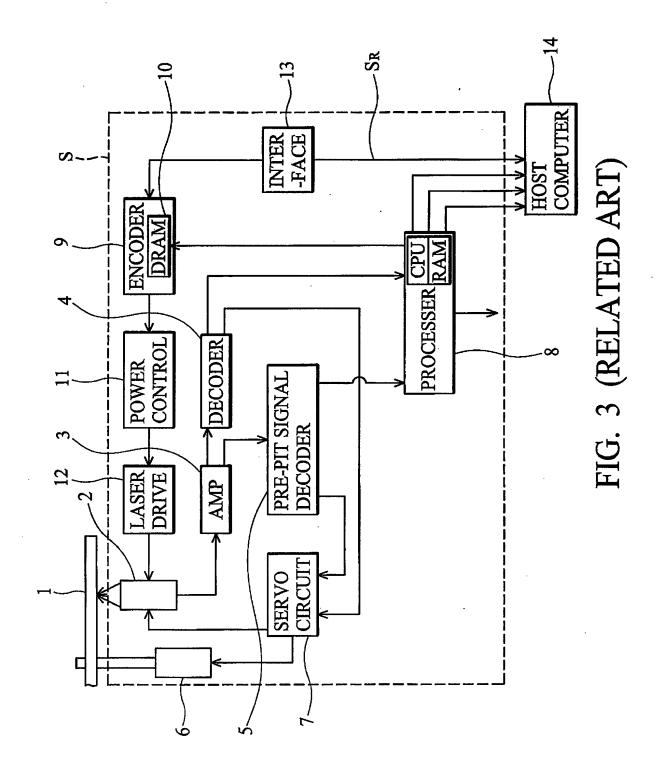


FIG. 1A (RELATED ART)

	192LINES(12*16)						PO(16LINES)			1			
	34	34	34	\		34		34	34	<u></u>	34		
	B <sub>0.181</sub>	B <sub>1.181</sub>	B <sub>2.181</sub>	B <sub>3.181</sub>	•••••	B100 181	190.101	B <sub>191.181</sub>	B <sub>192.181</sub>		B207.181	te)	(I
31		:		••••	*****					*****	••••	PI(10Byte)	AR
	B <sub>0.172</sub>	B <sub>1.172</sub>	B <sub>2.172</sub>	B <sub>3.172</sub>	•••••	B100 172	7/1.021 -	B <sub>191.172</sub>	B <sub>192.172</sub>	•••••	B <sub>207.172</sub>	PI(	(RELATED ART)
30	B <sub>0.171</sub>	B <sub>1.171</sub>	B <sub>2.171</sub>	B <sub>3.171</sub>		B100 171	1/1.051 -	B <sub>191.171</sub>	B <sub>192.171</sub>	•••••	B <sub>207.171</sub>		RELA
3	$\mathbf{B}_{0.170}$	B <sub>1.170</sub>	B <sub>2.170</sub>	B <sub>3.170</sub>	•••••	B100 170	150:1/0	B <sub>191.170</sub>	B <sub>192.170</sub>	•••••	B <sub>207.170</sub>	172Byte	FIG. 1B (
33		••••	••••		*****				:	•••••	•••••	172E	IG.
	B <sub>0.1</sub>	<b>B</b> <sub>1.1</sub>	B <sub>2.1</sub>	B <sub>3.1</sub>	•••••	B <sub>190</sub> 1	170.1	B <sub>191.1</sub>	B <sub>192.1</sub>	•••••	B <sub>207.1</sub>		ĬŦ,
;	B <sub>0.0</sub>	B <sub>1.0</sub>	B <sub>2.0</sub>	B <sub>3.0</sub>	•••••	Bien	22027	B <sub>191.0</sub>	B <sub>192.0</sub>	•••••	B <sub>207.0</sub>		
0								<u> </u>	<u>.</u>	<del>-</del>			
20	DATA	-1					EDC						/
1 22 23	D EC RSV DATA	DATA	DATA	•••••	•	DATA	DATA		24 172Byte				
21	II .			INE	777			-		<u>†</u>			
				. L. 1									





New Application: Kun-Long LIN et al. Filed: February 19, 2004 9 sheets of drawings FIGS.1A-7 RABIN & BERDO, P.C.

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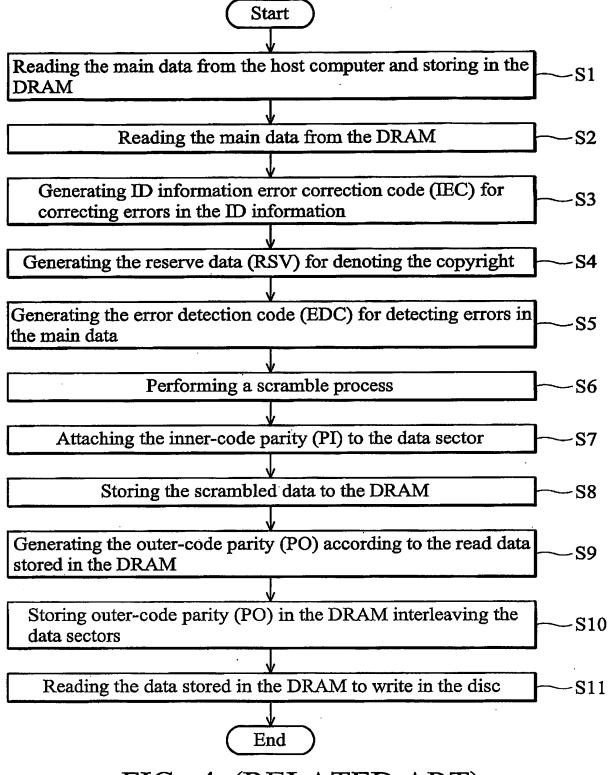


FIG. 4 (RELATED ART)

0608-9626-USf/Robert/Eric

New Application: Kun-Long LIN et al. Filed: February 19, 2004 9 sheets of drawings FIGS.1A-7 RABIN & BERDO, P.C. Atty Docket: TOP 270

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reading main data from DRAM

vertically scrambling main data to generate PO

scrambling main data to generate PI

scrambled data due to generating PI with ID, IED, RSV, EDC, PO, and PI onto a disc

End

Start

Teading main data from DRAM

510

520

530

FIG. 5

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Customer NO.: 23995

			•
ID IED RSV	160 bytes main data	D <sub>0</sub> ~D <sub>159</sub>	R0
172 bytes	R1		
172 bytes	R2		
			60
	•		
			]
168 bytes main	data D <sub>1880</sub> ~D <sub>2047</sub>	EDC	R11
L		····	J

FIG. 6A

New Application: Kun-Long LIN et al. Filed: February 19, 2004 9 sheets of drawings FIGS.1A-7 RABIN & BERDO, P.C. Atty Docket: TOP 270 Customer NO.: 23995

				60	)			
C0	C1			6			C171	_
$B_{0,0}$	B <sub>0,1</sub>	~B <sub>0,11</sub>	S <sub>0</sub>				S <sub>159</sub>	RO
S <sub>160</sub>	S <sub>161</sub>		S <sub>172</sub>				S <sub>331</sub>	R1
S <sub>332</sub>	S <sub>333</sub>		S <sub>344</sub>				S <sub>503</sub>	R2
		:						
S <sub>1880</sub>	S <sub>1881</sub>		S <sub>1892</sub>		S <sub>2047</sub>	B <sub>11,168~</sub> ]	B <sub>11,171</sub>	R11
PO <sub>0</sub>	$PO_1$		$PO_{11}$				PO <sub>171</sub>	

FIG. 6B

0608-9626-USf/Robert/Eric

New Application: Kun-Long LIN et al. Filed: February 19, 2004
9 sheets of drawings FIGS.1A-7
RABIN & BERDO, P.C.
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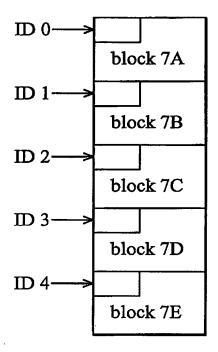


FIG. 7